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CONFIDENTIAL

99730-4

26 September 1966

DECLASS REVIEW BY NIMA / DoD

ACCURACY DETERMINATION OF [redacted] LIGHT TABLE # 3

1. Dates: 22 September 1966 Time: 1345 to 1430 (Y-Y motion)
   23 September 1966 Time: 1500 to 1600 (X-X motion)

25X1A 2. Evaluator: [redacted]

25X1D 3. Test Grid: NBS # 5391 (line with [redacted])

4. Warm Up Time: 5½ hours
   7 hours (with grid in contact with table)

5. Alignment Method: Edge matching

25X1A 6. Microscope: [redacted] Zoom 70 [redacted] (cross
25X1A hair in eyepiece with line width of [redacted]

25X1D 7. Magnification: 60X (10X eyepieces)

25X1A [redacted]

25X1A

*These readings were found by the statistical method of taking at least 5 individual readings at each grid line indicated. The recorded reading appeared at least 3 out of the 5 times.

25X1A [redacted]

25X1A

pnf Development Branch, P&DS

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GROUP 1
Excluded from automatic downgrading and

STATOTHR

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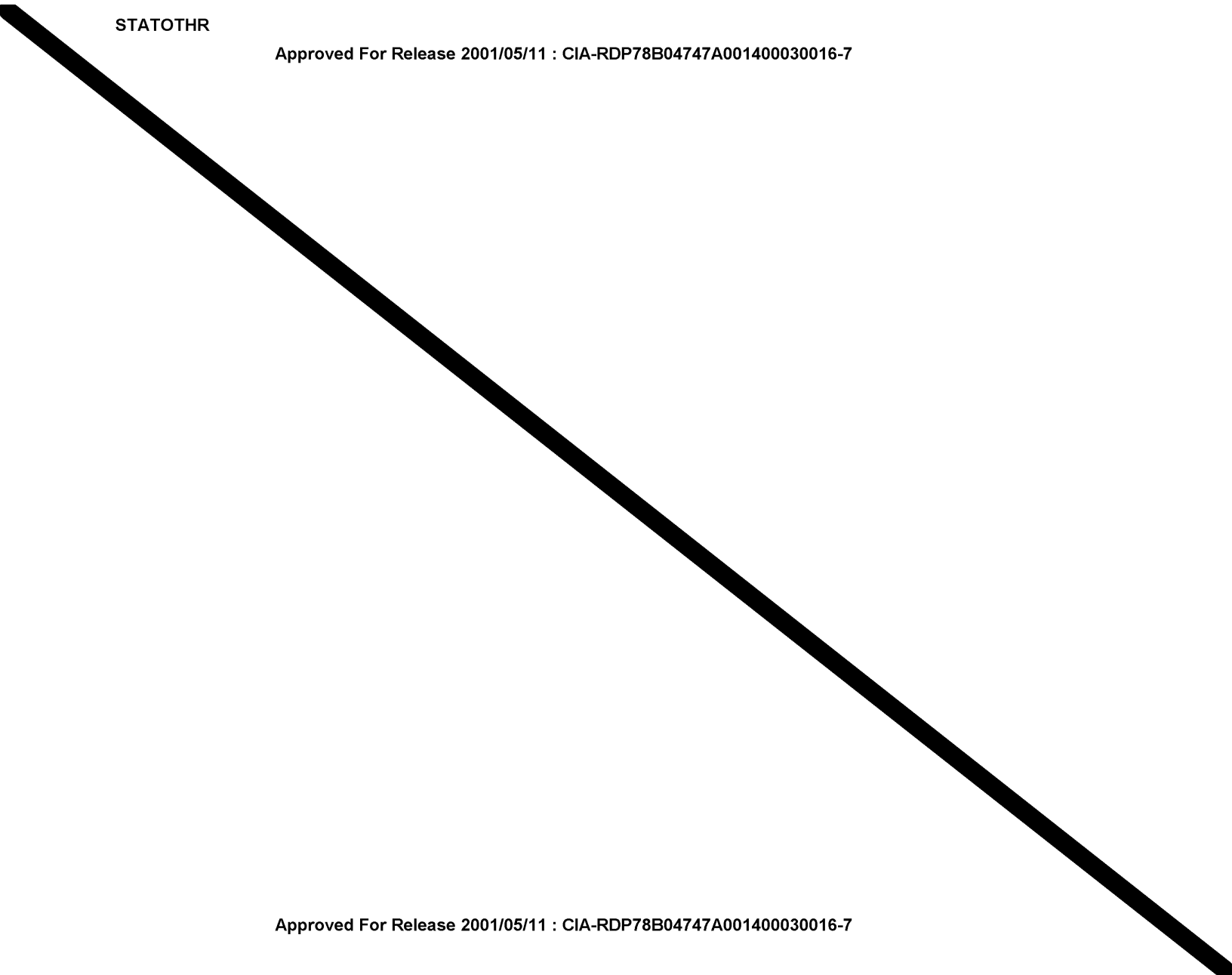

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FORM NBS-443
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U.S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
WASHINGTON, D.C. 20234

NATIONAL BUREAU OF STANDARDS
REPORT OF CALIBRATION
on
250-Millimeter Glass Scale

Maker: David W. Mann Company NBS No. 5391

Submitted by

Photographic Technology Section
Division 212.13
National Bureau of Standards
Washington, D. C.

This glass scale has been compared with the standards of the United States and a calibration made of some of the subintervals. The results are as follows:

Length of the interval from the zero graduation to the 250-millimeter graduation at 20° Celsius: 250.003 millimeters.

Length of Subintervals at 20° Celsius

Interval (mm)	Length (mm)
0 to 1	1.000
2	2.000
3	3.000
4	4.000
5	5.001
6	6.000
7	7.000
8	8.000
9	9.001
10	10.001
20	20.001
30	30.001
40	40.001
50	50.001
60	60.001
70	70.002
80	80.002
90	90.001
100	100.002

Test No. B212.21/129
Date: April 20, 1965

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Report continued
One 250-Millimeter David W. Mann
Company Glass Scale

NBS No. 5391

It is estimated that these values for the lengths are not in error by more than ±0.002 millimeter.

For the Director,

J. S. Beers

J. S. Beers
Acting Chief, Length Section
Metrology Division

Test No. B212.21/129
Date: April 20, 1965

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